

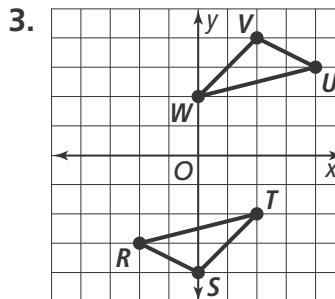
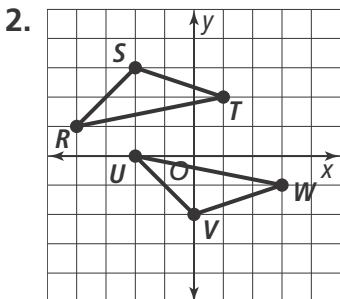


4-1 Additional Practice

Congruence

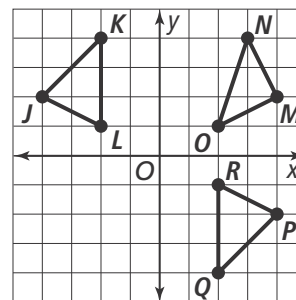
1. A reflection over the x -axis maps $\triangle ABC$ to $\triangle A'B'C'$. Do the preimage and image have the same size and shape? Explain.

Find a congruence transformation that maps $\triangle RST$ to $\triangle UVW$.



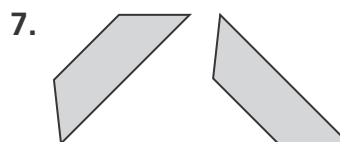
State whether each pair of triangles is congruent. If so, describe a composition of rigid motions that maps one triangle onto the other. If not, explain.

4. $\triangle JKL$ and $\triangle MNO$



5. $\triangle JKL$ and $\triangle PQR$

Determine whether each pair of objects is congruent. If so, describe a composition of rigid motions that maps one object onto the other.



8. **Understand** The composition of transformations $R_{y=-5} \circ r_{(90^\circ, A)}$ maps $\triangle ABC$ to $\triangle XYZ$. If the perimeter of $\triangle XYZ$ is 26, what is a possible set of values of AB , BC , and AC ? Explain.

9. **Apply** Are the pockets on this shirt congruent? If so, describe a composition of rigid motions that maps one pocket to the other.

